

Protective Mask

Product Display

KN95 Protective Mask FFP2

Information

Name: 4 layers Protective mask folding

Material: 2layers of non-woven fabric + 2layers of meltblown fabric

(Many on the market are just a layer of meltblown cloth, the protection effect is not so good)

Storage period: 2 years

Single net weight: 4.5g

Gross weight of a box: 48g

Color box size: 130 * 175 * 26mm

Packing number: 200 boxes (a box of 5)

Carton size: 590 * 490 * 470mm

Packing gross weight: 12.3KG

1. Pass CE test, EN149: 2001 + A1: 20019 | FFP2 standard

2. KN95 safety level, effective filtration of harmful substances, filtration efficiency is greater than 95%,

3. Four layers of protection, two layers of skin-friendly non-woven fabric, two layers of meltblown cloth filter layer, high water resistance

4. 3D three-dimensional ventilation technology, soft nose bridge fixing strip, comfortable to wear

5. Authoritative testing, passed GB2626-2006 standard

HS code: 6307900000



Protective Mask

Product Display

KN95 Mask Real Display



Protective Mask

Factory Show

Dust-free production environment

Factory Display

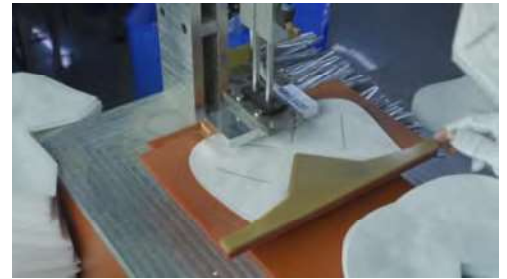
Medical grade sterile environment

Dust-free production environment

Must wear gloves

Must wear protective clothing

Must keep the production environment clean



Unknown Source
Dirty and No Clean
No Sterile Environment
Will Never Happen
In Our Factory

Product Testing Report

Notes:KN95 standard is same as FFP2(EUROPE)/N95(US) which can be more than 95% efficacy of filter performance.

Our real Anti-Particles filtering effect testing result is 98.4%

**In line with national standards
Tested by authoritative agencies**

KN95 national standard testing according to GB2626-2006

Real anti-particles $\geq 95\%$ filtering effect



检测报告

98.4

广州市微生物检测中心
GUANGZHOU MICROBIOLOGY TESTING CENTER

检测日期: 2020年03月04日
Date Received

检测结果
Test Results

序号	检测项目	单位符号	检测结果	标准要求
1	过滤效率	%	98.4	KN90 ($\geq 90.0\%$) KN95 ($\geq 95.0\%$) KN100 ($\geq 99.97\%$)
2	呼气阻力	Pa	31.2	≤ 50
	吸气阻力	Pa	46.7	≤ 50

报告结束/End of report

编制: 陈国祥 审核: 陈国祥 签发: 陈国祥 报告日期: 2020年03月04日
Editor: 陈国祥 Checker: 陈国祥 Issuer: 陈国祥 Date Reported

广州市微生物检测中心
检验检测专用章

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Pacakage

1. All Package with EAN code, Lot Number, MFG Date
2. CE Standard: 149:2001+A1:2009



CE Certificate – KN95 Mask FFP2

CELAB®
Via Maini snc
04100 Latina
Italy
celab@celab.com

celab

CERTIFICATE
- USE OF STANDARD -

Certificate Number UCN: 802733584897
Job: J29711
Date of Issue: 2020-03-16
Certificate valid up to: 2024-03-17

Brand Name:
Type: Protective mask
Model #: CY300, CY301

Manufacturer: 东莞市广源电子有限公司
Address: 201, No.8 Building, Jintanghua Electricity Industrial Park, Bantian St., Longgang Dist., Shenzhen, China

Standard Used: EN 149:2001+A1:2009

Conclusion:
After inspection of the technical documentation issued by the customer, and in his request, we express our opinion that this documentation meets the technical requirement of the above standards.

This opinion is only valid for the equipment and configuration described, in conjunction with the test data detailed above and with compliance with all applicable legal requirement for the product.
The following manufacturer documents was inspected:

Presence of test report using standards as indicated by the manufacturer ☒ OK

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Massimiliano Bertoldi
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Doc 125 Voluntary Certificate of Standard - rev 2.1

CE Test Report



Shenzhen BEL Technology Co., Ltd.

Report No.: BEL20200000101820

Classification	EN 149:2001+ A1:2009 Clause 5	Particle filtering half masks are classified according to their filtering efficiency and their maximum total inward leakage. There are three classes of devices: FFP1, FFP2 and FFP3.	Pass. FFP2.
Designation	EN 149:2001+ A1:2009 Clause 6	Particle filtering half masks meeting the requirements of this European Standard shall be designated in the following manner: Particle filtering half mask EN 149, year of publication, classification, option (where "D" is an option for a non re-useable particle filtering half mask and mandatory for re-useable particle filtering half mask).	Pass.
Nominal values and tolerances	EN 149:2001+ A1:2009 Clause 7.2	Unless otherwise specified, the values stated in this European Standard are expressed as nominal values. Except for temperature limits, values which are not stated as maxima or minima shall be subject to a tolerance of $\pm 5\%$. Unless otherwise specified, the ambient temperature for testing shall be $(16 - 32)^\circ\text{C}$, and the temperature limits shall be subject to an accuracy of $\pm 1^\circ\text{C}$.	Pass. $+5^\circ\text{C}$ to $+38^\circ\text{C}$.
Visual inspection	EN 149:2001+ A1:2009 Clause 7.3	The visual inspection shall also include the marking and the information supplied by the manufacturer.	Pass.
Packaging	EN 149:2001+ A1:2009 Clause 7.4 & Clause 8.2	Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use. The visual inspection is carried out where appropriate by the test house prior to laboratory or practical performance tests.	Pass.

CE Test Report



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Material	EN 149:2001+ A1:2009 Clause 7.5& Clause 8.3	A breathing machine is adjusted to 25 cycles/min and 2.0 l/stroke. The particle filtering half mask is mounted on a Sheffield dummy head. For testing, a saturator is incorporated in the exhalation line between the breathing machine and the dummy head, the saturator being set at a temperature in excess of 37 °C to allow for the cooling of the air before it reaches the mouth of the dummy head. The air shall be saturated at $(37 \pm 2) ^\circ\text{C}$ at the mouth of the dummy head. In order to prevent excess water spilling out of the dummy's mouth and contaminating the particle filtering half mask the head shall be inclined so that the water runs away from the mouth and is collected in a trap.	Pass. Melt blown filter
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CE Test Report



Shenzhen BEL Technology Co., Ltd.

Report No: BEL20200000101820

Practical performance	EN 149:2001+A1:2009 Clause 7.7& Clause 8.4	Walking test The subjects wearing normal working clothes and wearing the particle filtering half mask shall walk at a regular rate of 6 km/h on a level course. The test shall be continuous, without removal of the particle filtering half mask, for a period of 10 min. Work simulation test The individual activities shall be arranged so that sufficient time is left for the comments prescribed. a) walking on the level with headroom of (1.3 ± 0.2) m for 5 min; b) crawling on the level with headroom of (0.70 ± 0.05) m for 5 min; c) filling a small basket (see Figure 1, approximate volume = 8 l) with chippings or other suitable material from a hopper which stands 1.5 m high and has an opening at the bottom to allow the contents to be shovelled out and a further opening at the top where the basket full of chippings is returned. The subject shall stoop or kneel as he wishes and fill the basket with chippings. He shall then lift the basket and empty the contents back into the hopper. This shall be done 20 times in 10 min.	Pass. The particle filtering half mask could undergo practical performance tests under realistic conditions.
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CE Test Report



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Report No.: BEL20200000101820

Finish of parts	EN 149:2001+A1:2009 Clause 7.8& Clause 8.2	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs. Testing shall be done in accordance with 8.2.	Pass. No sharp edges and burrs.														
Total inward Leakage	EN 149:2001+A1:2009 Clause 7.9.1& Clause 8.5	1) walking for 2 min. without head movement or talking; 2) turning head from side to side (approx. 15 times), as if inspecting the walls of a tunnel for 2 min; 3) moving the head up and down (approx. 15 times), as if inspecting the roof and floor for 2 min; 4) walking for 2 min. without head movement or talking. The leakage P shall be calculated from measurements made over the last 100 s of each of the exercise periods to avoid carry over of results from one exercise to the other. $P(\%) = \frac{C_2}{C_1} \times \left(\frac{I_{IN} + I_{EX}}{I_{IN}} \right) \times 100$ where C ₁ is the challenge concentration C ₂ is the measured mean concentration in the breathing zone of the test subject I _{IN} is the total duration of inhalation I _{EX} is the total duration of exhalation	Total inward leakage is 7%.														
Penetration of filter material	EN 149:2001+A1:2009 Clause 7.9.2	The device shall be mounted in a leaktight manner on a suitable adaptor and subjected to the test(s), ensuring that components of the device that could affect filter penetration values such as valves and harness attachment points are exposed to the challenge aerosol. Testing of penetration, exposure and storage shall be done in accordance with EN 13274-7. The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1. <table><caption>Table 1 — Penetration of filter material</caption><thead><tr><th rowspan="2">Classification</th><th colspan="2">F) Maximum penetration of test aerosol (%)</th></tr><tr><th>Sodium chloride test (5 min)</th><th>Paraffin oil test (5 min)</th></tr></thead><tbody><tr><td>FFP1</td><td>20</td><td>20</td></tr><tr><td>FFP2</td><td>5</td><td>5</td></tr><tr><td>FFP3</td><td>1</td><td>1</td></tr></tbody></table>	Classification	F) Maximum penetration of test aerosol (%)		Sodium chloride test (5 min)	Paraffin oil test (5 min)	FFP1	20	20	FFP2	5	5	FFP3	1	1	Pass. The penetration of paraffin oil test is 3%. The penetration of sodium chloride test is 2.7%.
Classification	F) Maximum penetration of test aerosol (%)																
	Sodium chloride test (5 min)	Paraffin oil test (5 min)															
FFP1	20	20															
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FFP3	1	1															
Compatibility with skin	EN 149:2001+A1:2009 Clause 7.10	Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health	Pass. Inner and out layer: Nonwoven pet fabric														

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Flammability	EN 149:2001+A1:2009 Clause 7.11 & Clause 8.6	The facepiece is put on a metallic dummy head which is motorized such that it describes a horizontal circle with a linear speed, measured at the tip of the nose, of (60 ± 5) mm/s. The head is arranged to pass over a propane burner the position of which can be adjusted. By means of a suitable gauge, the distance between the top of the burner, and the lowest part of the facepiece (when positioned directly over the burner) shall be set to (20 ± 2) mm. With the head turned away from the area adjacent to the burner, the propane gas is turned on, the pressure adjusted to between 0.2 bar and 0.3 bar and the gas ignited. By means of a needle valve and fine adjustments to the supply pressure, the flame height shall be set to (40 ± 4) mm. This is measured with a suitable gauge. The temperature of the flame measured at a height of (20 ± 2) mm above the burner tip by means of a 1.5 mm diameter mineral insulated thermocouple probe shall be (800 ± 50) °C. The head is set in motion and the effect of passing the facepiece once through the flame shall be noted. The test shall be repeated to enable an assessment to be made of all materials on the exterior of the device. Any one component shall be passed through the flame once only.	Pass. The particle filtering half mask does not continue to burn for more than 5 s after removal from the flame
Carbon dioxide content of the inhalation air	EN 149:2001+A1:2009 Clause 7.12 & Clause 8.7	For this test the particle filtering half mask shall be fitted securely in a leak-tight manner but without deformation to a Sheffield dummy head (see Figure 6). Air shall be supplied to it from a breathing machine adjusted to 25 cycles/min and 2.0 l/stroke and the exhaled air shall have a carbon dioxide content of 5 % by volume. The CO₂ is fed into the breathing machine via a control valve, a flowmeter, a compensating bag and two non-return valves. Immediately before the solenoid valve a small quantity of exhaled air is preferably continuously withdrawn through a sampling line and then fed into the exhaled air via a CO₂ analyser. To measure the CO₂ content of the inhaled air, 5 % of the stroke volume of the inhalation	Pass. The carbon dioxide content of the inhalation air (dead space) does not exceed an average of 1.0 %

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		phase of the breathing machine is drawn off at the marked place by an auxiliary lung and fed to a CO₂ analyser. The total dead space of the gas path (excluding the breathing machine) of the test installation should not exceed 2000 ml. Measure the carbon dioxide content of the inhaled air and record continuously.	
Head harness	EN149:2001+A1:2009 Clause 7.13	The head harness shall be designed so that the particle filtering half mask can be donned and removed easily. The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device.	Pass
Field of vision	EN149:2001+A1:2009 Clause 7.14	The field of vision is acceptable if determined so in practical performance tests.	Not applicable
Exhalation valve(s)	EN 149:2001+A1:2009 Clause 7.15	A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations. Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s. When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s.	Pass
Breathing resistance	EN 149:2001+A1:2009 Clause 7.16& Clause 8.9	Seal the particle filtering half mask on the Sheffield dummy head. Measure the exhalation resistance at the opening for mouth of the dummy head using the adapter shown in Figure 6 and a breathing machine adjusted to 25 cycles/min and 2.0 l/stroke or a continuous flow 160 l/min. Use a suitable pressure transducer. Measure the exhalation resistance with the dummy head successively placed in 5 defined positions: - facing directly ahead - facing vertically upwards - facing vertically downwards - lying on the left side - lying on the right side Test the inhalation resistance at 30 l/min and 95 l/min continuous flow. The breathing resistances apply to valved and	Pass Inhalation resistance at 30 l/min: <0.8mbar. Inhalation resistance at 95 l/min: <2.6mbar. Exhalation resistance at 160 l/min: <3.2mbar.

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		valveless particle filtering half masks and shall meet the requirements of Table 2.																							
		Table 2 — Breathing resistance <table> <tr> <th rowspan="3">Classification</th><th colspan="3">Maximum permitted resistance (mbar)</th></tr> <tr> <th colspan="2">Inhalation</th><th>Exhalation</th></tr> <tr> <th>30 l/min</th><th>60 l/min</th><th>180 l/min</th></tr> <tr> <td>FFP1</td><td>0.6</td><td>2.1</td><td>2.0</td></tr> <tr> <td>FFP2</td><td>0.7</td><td>2.4</td><td>2.0</td></tr> <tr> <td>FFP3</td><td>1.0</td><td>3.0</td><td>2.0</td></tr> </table>	Classification	Maximum permitted resistance (mbar)			Inhalation		Exhalation	30 l/min	60 l/min	180 l/min	FFP1	0.6	2.1	2.0	FFP2	0.7	2.4	2.0	FFP3	1.0	3.0	2.0	
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FFP3	1.0	3.0	2.0																						
Clogging	EN 149:2001+A1:2009 Clause 7.17 & Clause 8.10	Convey dust from the distributor to the dust chamber where it is dispersed into the air stream of 60 m/h. Fit the sample particle filtering half mask in a leaktight manner to a dummy head or a suitable filter holder located in the dust chamber. Connect the breathing machine and humidifier to the sample and operate for the specified testing time. The concentration of dust in the test chamber may be measured by drawing air at 2 l/min through a sampling probe equipped with a pre-weighed, high efficiency filter (open face, diameter 37 mm) located near the test sample, as shown in Figure 10. Calculate the dust concentration from the weight of dust collected, the flow rate through the filter and the time of collection.	Not applicable																						
Demountable parts	EN 149:2001+A1:2009 Clause 7.18	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.	Not applicable																						

CE Test Report

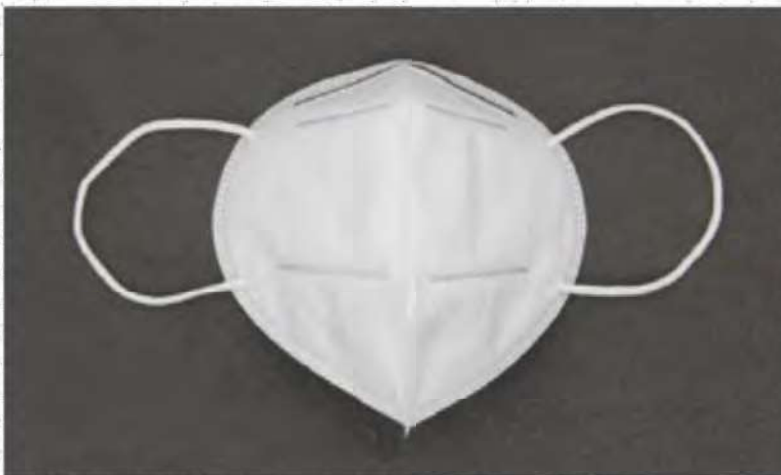


Shenzhen BEL Technology Co., Ltd. Report No.: BEL20200000101820

EUT Photo 1



EUT Photo 2



CE Test Report



Shenzhen BEL Technology Co., Ltd.

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EUT Photo 3



EUT Photo 4



***** END OF REPORT *****